

**102106T4COH**

**COMMUNITY HEALTH LEVEL 6**

**HE/OS/CH/CC/04/6/A**

**Apply Human Anatomy and Physiology**

**Nov/Dec 2024**



**TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION  
COUNCIL (TVET CDACC)**

**WRITTEN ASSESSMENT**

**Time: 3 HOURS**

**INSTRUCTIONS TO CANDIDATE**

1. Marks for each question are indicated in the brackets.
2. The paper consists of **TWO** sections: **A** and **B**.
3. Candidates are provided with a separate answer booklet
4. **DO NOT** write on this question paper.

**This paper consists of THREE (3) printed pages  
Candidates should check the question paper to ascertain that all  
pages are printed as indicated and that no questions are missing.**

**SECTION A (40 MARKS)**

*Answer ALL the questions in this section.*

1. The prevalence of non-communicable diseases in Kenya is of public health concern. State FOUR non-communicable diseases. (4 Marks)
2. Enzymes are catalysts in digestion of food. Outline FOUR digestive enzymes and their functions. (4 Marks)
3. The skin is the largest organ in the body. Identify THREE protective functions of the organ. (3 Marks)
4. Hormones control most metabolic activities in the body. Mention FOUR endocrine glands and their anatomical locations. (4 Marks)
5. Human heart pumps blood to all body organs. Highlight FOUR factors affecting heart rate in humans. (4 Marks)
6. Primary health care is the care provided by health experts at all levels of healthcare delivery. Outline THREE reasons why the knowledge of human anatomy and physiology is of benefit in Primary health. (3 Marks)
7. The metabolic activities in the human body are controlled by the brain. Identify FOUR functions of hypothalamus part of the brain. (4 Marks)
8. The human body moves in different direction depending on the body activities. Outline FOUR anatomical body movements. (4 Marks)
9. Human ear is important in hearing and balance. Identify THREE types of bones that forms auditory ossicles of the human ear. (3 Marks)
10. Blood tissue is very useful in the circulatory system. State FOUR functions of blood. (4 Marks)
11. Nerve impulse transmission allows changes in human bodies when exposed to different external conditions. Mention THREE types of nerves. (3 Marks)

**SECTION B (60 MARKS)**

***Answer Any THREE Questions in This Section***

12. Respiration is the process that all living things depend on to create energy for important body activities.
- a) With an aid of a well labeled diagram, illustrate the structure of human respiratory system. (8 Marks)
  - b) Describe the cycle of respiration in humans. (12 Marks)
13. The urinary system also known as the renal system, works to promote wholesome body health.
- a) Define the term “selective re-absorption.” (2 Marks)
  - b) Discuss FIVE functions of the urinary system. (10 Marks)
  - c) Describe FOUR hormones which control re-absorption of water and mineral salts in the kidney nephron. (8 Marks)
14. Reproduction ensures procreation of the human species.
- a) Explain FIVE functions of the female reproductive system. (10 Marks)
  - b) Describe FIVE changes that occur in human males at puberty. (10 Marks)
15. Human beings move from one place to another for a variety of reasons. This is supported by skeleton, muscles and joints.
- a) Giving examples in each case, explain FIVE types of bones. (10 Marks)
  - b) Synovial or freely movable joints allow a wide range of movements. Explain FIVE types of synovial joints. (10 Marks)